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NEWS  1          Web Page for STN Seminar Schedule - N. America
NEWS  2  JUL 02  LMEDLINE coverage updated
NEWS  3  JUL 02  SCISEARCH enhanced with complete author names
NEWS  4  JUL 02  CHEMCATS accession numbers revised
NEWS  5  JUL 02  CA/CAplus enhanced with utility model patents from China
NEWS  6  JUL 16  CAplus enhanced with French and German abstracts
NEWS  7  JUL 18  CA/CAplus patent coverage enhanced
NEWS  8  JUL 26  USPATFULL/USPAT2 enhanced with IPC reclassification
NEWS  9  JUL 30  USGENE now available on STN
NEWS 10  AUG 06  CAS REGISTRY enhanced with new experimental property tags
NEWS 11  AUG 06  FSTA enhanced with new thesaurus edition
NEWS 12  AUG 13  CA/CAplus enhanced with additional kind codes for granted
                 patents
NEWS 13  AUG 20  CA/CAplus enhanced with CAS indexing in pre-1907 records
NEWS 14  AUG 27  Full-text patent databases enhanced with predefined
                 patent family display formats from INPADOCDB
NEWS 15  AUG 27  USPATOLD now available on STN
NEWS 16  AUG 28  CAS REGISTRY enhanced with additional experimental
                 spectral property data
NEWS 17  SEP 07  STN AnaVist, Version 2.0, now available with Derwent
                 World Patents Index
NEWS 18  SEP 13  FORIS renamed to SOFIS
NEWS 19  SEP 13  INPADOCDB enhanced with monthly SDI frequency
NEWS 20  SEP 17  CA/CAplus enhanced with printed CA page images from
                 1967-1998
NEWS 21  SEP 17  CAplus coverage extended to include traditional medicine
                 patents
NEWS 22  SEP 24  EMBASE, EMBAL, and LEMBASE reloaded with enhancements
NEWS 23  OCT 02  CA/CAplus enhanced with pre-1907 records from Chemisches
                 Zentralblatt
NEWS 24  OCT 19  BEILSTEIN updated with new compounds

NEWS EXPRESS  19 SEPTEMBER 2007:  CURRENT WINDOWS VERSION IS V8.2,
              CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
              AND CURRENT DISCOVER FILE IS DATED 19 SEPTEMBER 2007.

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FILE 'HOME' ENTERED AT 12:35:15 ON 02 NOV 2007

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=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 12:35:26 ON 02 NOV 2007
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STRUCTURE FILE UPDATES: 31 OCT 2007 HIGHEST RN 952181-70-3
DICTIONARY FILE UPDATES: 31 OCT 2007 HIGHEST RN 952181-70-3

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http://www.cas.org/support/stngen/stndoc/properties.html

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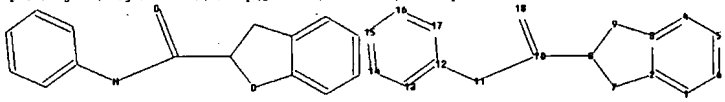


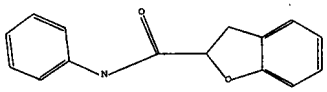
chain nodes :
10 11 18
ring nodes :
1 2 3 4 5 6 7 8 9 12 13 14 15 16 17
chain bonds :
8-10 10-11 10-18 11-12
ring bonds :
1-2 1-6 2-3 2-7 3-4 3-9 4-5 5-6 7-8 8-9 12-13 12-17 13-14 14-15 15-16 16-17
exact/norm bonds :
2-7 3-9 7-8 8-9 10-11 10-18 11-12
exact bonds :
8-10
normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 12-13 12-17 13-14 14-15 15-16 16-17

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS 11:CLASS 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS

L1 STRUCTURE UPLOADED

=> d
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1 sss sam
SAMPLE SEARCH INITIATED 12:35:42 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 1514 TO ITERATE

100.0% PROCESSED 1514 ITERATIONS 7 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 27946 TO 32614
PROJECTED ANSWERS: 7 TO 298

L2 7 SEA SSS SAM L1

=> s l1 sss full
FULL SEARCH INITIATED 12:35:56 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 30126 TO ITERATE

100.0% PROCESSED 30126 ITERATIONS 168 ANSWERS
SEARCH TIME: 00.00.01

L3 168 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	172.10	172.31

FILE 'CAPLUS' ENTERED AT 12:36:01 ON 02 NOV 2007
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FILE LAST UPDATED: 1 Nov 2007 (20071101/ED)

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http://www.cas.org/infopolicy.html

=> s l3
L4 20 L3

=> d ibib tot

L4 ANSWER 1 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2007:1064426 CAPLUS Full-text
DOCUMENT NUMBER: 147:386026
TITLE: Preparation of nitrogenated heterocyclic derivatives as antagonists of chemokine receptor 5 (CCR5)
INVENTOR(S): Kusuda, Shinya; Nishiyama, Toshihiko; Hashimura, Kazuya; Ueda, Junya; Shibayama, Shiro
PATENT ASSIGNEE(S): Ono Pharmaceutical Co., Ltd., Japan
SOURCE: PCT Int. Appl., 185pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007105637	A1	20070920	WO 2007-JP54684	20070309
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

PRIORITY APPLN. INFO.: JP 2006-66451 A 20060310
REFERENCE COUNT: 66 THERE ARE 66 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2007:671975 CAPLUS Full-text
DOCUMENT NUMBER: 147:95654
TITLE: Benzoxazole derivatives and related compounds as CETP inhibitors and their preparation, pharmaceutical composition and use for raising HDL and reducing LDL

cholesterol and treatment of atherosclerosis
INVENTOR(S): Ali, Amjad; Hunt, Julianne A.; Kallashi, Florida; Kowalchick, Jennifer E.; Kim, Dooseop; Smith, Cameron J.; Sinclair, Peter J.; Sweis, Ramzi F.; Taylor, Gayle E.; Thompson, Christopher F.; Chen, Liya; Quraishi, Nazia
PATENT ASSIGNEE(S): Merck & Co., Inc., USA
SOURCE: PCT Int. Appl., 294pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007070173	A2	20070621	WO 2006-US42208	20061030
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
PRIORITY APPLN. INFO.:			US 2005-732168P	P 20051031
OTHER SOURCE(S):	MARPAT 147:95654			

L4 ANSWER 3 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2007:485607 CAPLUS Full-text
DOCUMENT NUMBER: 146:482079
TITLE: Preparation of 2-aminodihydrothiazine derivatives as β-secretase inhibitors
INVENTOR(S): Kobayashi, Naotake; Ueda, Kazuo; Itoh, Naohiro; Suzuki, Shinji; Sakaguchi, Gaku; Kato, Akira; Yukimasa, Akira; Hori, Akihiro; Koriyama, Yuji; Haraguchi, Hidekazu; Yasui, Ken; Kanda, Yasuhiko
PATENT ASSIGNEE(S): Japan
SOURCE: PCT Int. Appl., 330pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007049532	A1	20070503	WO 2006-JP321015	20061023
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,				

KG, KZ, MD, RU, TJ, TM
PRIORITY APPLN. INFO.: JP 2005-309642 A 20051025
JP 2006-76636 A 20060320
OTHER SOURCE(S): MARPAT 146:482079
REFERENCE COUNT: 45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:1026943 CAPLUS Full-text
DOCUMENT NUMBER: 143:306325
TITLE: Substituted morpholine and thiomorpholine derivatives as potassium channel openers, their preparation, pharmaceutical compositions, and use
INVENTOR(S): Wenzel Tornoe, Christian; Rottlaender, Mario; Khanzhin, Nikolay; Ritzen, Andreas; Watson, William Patrick
PATENT ASSIGNEE(S): H. Lundbeck A/S, Den.
SOURCE: PCT Int. Appl., 88 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005087754	A1	20050922	WO 2005-DK159	20050309
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2005221762	A1	20050922	AU 2005-221762	20050309
CA 2559397	A1	20050922	CA 2005-2559397	20050309
EP 1727809	A1	20061206	EP 2005-706819	20050309
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				
CN 1930138	A	20070314	CN 2005-80007885	20050309
BR 2005008570	A	20070814	BR 2005-8570	20050309
JP 2007528880	T	20071018	JP 2007-502191	20050309
US 2006167248	A1	20060727	US 2005-314802	20051221
MX 2006PA10329	A	20061110	MX 2006-PA10329	20060911
IN 2006CN03297	A	20070706	IN 2006-CN3297	20060912
NO 2006004599	A	20061208	NO 2006-4599	20061010
PRIORITY APPLN. INFO.:			DK 2004-412 A	20040312
			US 2004-552574P P	20040312
			WO 2005-DK159 W	20050309
OTHER SOURCE(S):	MARPAT 143:306325			
REFERENCE COUNT:	5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT			

L4 ANSWER 5 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:564644 CAPLUS Full-text
DOCUMENT NUMBER: 143:97280
TITLE: Preparation of benzazepine derivatives as histamine H3 antagonists
INVENTOR(S): Bailey, Nicholas; Bamford, Mark James; Dean, David

Kenneth; Pickering, Paula Louise; Wilson, David Matthew; Witherington, Jason
PATENT ASSIGNEE(S): Glaxo Group Limited, UK
SOURCE: PCT Int. Appl., 68 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005058837	A1	20050630	WO 2004-EP14380	20041215
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1713778	A1	20061025	EP 2004-803989	20041215
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JP 2007514690	T	20070607	JP 2006-544347	20041215
US 2007060566	A1	20070315	US 2006-596503	20060615
PRIORITY APPLN. INFO.:			GB 2003-29214 A	20031217
			WO 2004-EP14380 W	20041215
OTHER SOURCE(S):	MARPAT 143:97280			
REFERENCE COUNT:	6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT			

L4 ANSWER 6 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:902373 CAPLUS Full-text
DOCUMENT NUMBER: 141:379923
TITLE: Preparation of phenylazole compounds as antioxidant drugs
INVENTOR(S): Mochiduki, Nobuo; Umeda, Nobuhiro; Uchida, Seiichi; Ikeyama, Seiichi; Tsubokura, Shiro; Takada, Mitsumasa
PATENT ASSIGNEE(S): Nippon Soda Co., Ltd., Japan
SOURCE: PCT Int. Appl., 45 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004092163	A1	20041028	WO 2004-JP5237	20040413
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN,				

TD, TG

AU 2004230367	A1	20041028	AU 2004-230367	20040413
CA 2522266	A1	20041028	CA 2004-2522266	20040413
EP 1614688	A1	20060111	EP 2004-727126	20040413
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US 2006189673	A1	20060824	US 2005-553108	20051013
PRIORITY APPLN. INFO.:			JP 2003-109667 A	20030414
			JP 2004-23032 A	20040130
			WO 2004-JP5237 W	20040413
OTHER SOURCE(S):	MARPAT 141:379923			
REFERENCE COUNT:	6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT			

L4 ANSWER 7 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2000:98525 CAPLUS Full-text
DOCUMENT NUMBER: 132:137396
TITLE: Phenylazole compounds, process for producing the same and drugs for hyperlipemia
INVENTOR(S): Umeda, Nobuhiro; Mochizuki, Nobuo; Uchida, Seiichi; Nishibe, Tadayuki; Yamada, Hirokazu; Ito, Kunihito; Horikoshi, Hiromi
PATENT ASSIGNEE(S): Nippon Soda Co., Ltd., Japan
SOURCE: PCT Int. Appl., 92 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000006550	A1	20000210	WO 1999-JP4070	19990729
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2339123	A1	20000210	CA 1999-2339123	19990729
AU 9949297	A1	20000221	AU 1999-49297	19990729
AU 753360	B2	20021017		
EP 1101759	A1	20010523	EP 1999-933152	19990729
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
CN 1131217	B	20031217	CN 1999-809019	19990729
JP 2000290280	A	20001017	JP 1999-216581	19990730
JP 2000281656	A	20001010	JP 1999-221789	19990804
JP 2000281658	A	20001010	JP 1999-221790	19990804
US 6342516	B1	20020129	US 2001-744786	20010126
PRIORITY APPLN. INFO.:			JP 1998-218316 A	19980731
			JP 1998-222157 A	19980805
			JP 1999-16846 A	19990126
			JP 1999-19670 A	19990128
			JP 1999-24318 A	19990201
			WO 1999-JP4070 W	19990729
OTHER SOURCE(S):	MARPAT 132:137396			

L4 ANSWER 8 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1997:716591 CAPLUS Full-text

DOCUMENT NUMBER: 128:57126
TITLE: Synthesis, cytotoxicity, antitumor activity and sequence selective binding of two pyrazole analogs structurally related to the antitumor agents U-71,184 and adozelesin
AUTHOR(S): Baraldi, Pier Giovanni; Cacciari, Barbara; Romagnoli, Romeo; Spalluto, Giampiero; Gambari, Roberto; Bianchi, Nicoletta; Passadore, Marco; Ambrosino, Piera; Mongelli, Nicola; Cozzi, Paolo; Geroni, Cristina
CORPORATE SOURCE: Dipartimento di Scienze Farmaceutiche, Ferrara, I-44100, Italy
SOURCE: Anti-Cancer Drug Design (1997), 12(7), 555-576
CODEN: ACDDEA; ISSN: 0266-9536
PUBLISHER: Oxford University Press
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 55 THERE ARE 55 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 9 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1996:466908 CAPLUS Full-text
DOCUMENT NUMBER: 125:114620
TITLE: Preparation of (imidazolylethyl)benzofuran derivatives as 5-lipoxygenase inhibitors
INVENTOR(S): Hasegawa, Tomoyuki; Hachitani, Katsutoshi; Nanbu, Fumio; Oonada, Shuichi
PATENT ASSIGNEE(S): Ono Pharmaceutical Co, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 120 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08109179	A	19960430	JP 1994-270614	19941007
PRIORITY APPLN. INFO.:			JP 1994-270614	19941007

OTHER SOURCE(S): MARPAT 125:114620

L4 ANSWER 10 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1996:196719 CAPLUS Full-text
DOCUMENT NUMBER: 124:261034
TITLE: Preparation and formulation of dihydrobenzofuranylalkylimidazoles and analogs as antiinflammatory agents, antioxidants, and thromboxane A2 synthetase inhibitors
INVENTOR(S): Hasegawa, Tomoyuki; Hachitani, Katsutoshi; Nanbu, Fumio; Oonada, Shuichi
PATENT ASSIGNEE(S): Ono Pharmaceutical Co, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 55 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07316150	A	19951205	JP 1994-133575	19940524
PRIORITY APPLN. INFO.:			JP 1994-133575	19940524

OTHER SOURCE(S): MARPAT 124:261034

L4 ANSWER 11 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1993:570378 CAPLUS Full-text
DOCUMENT NUMBER: 119:170378
TITLE: Silver halide color photographic photosensitive materials containing two-equivalent yellow couplers
INVENTOR(S): Ikesu, Satoru; Kita, Hiroshi; Kaneko, Yutaka
PATENT ASSIGNEE(S): Konica Co., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 20 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04353844	A	19921208	JP 1991-153803	19910530
PRIORITY APPLN. INFO.:			JP 1991-153803	19910530

L4 ANSWER 12 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1991:6361 CAPLUS Full-text
DOCUMENT NUMBER: 114:6361
TITLE: Synthesis and reactions of some new benzofurano[3,2-c]pyrazol-3-one and benzofurano[3,2-c]isoxazol-3-one derivatives of expected biological activity
AUTHOR(S): Habib, O. M. O.; Abd El-Rahman, A. H.; Badawy, D. S.
CORPORATE SOURCE: Fac. Sci., Mansoura Univ., Mansoura, Egypt
SOURCE: Revue Roumaine de Chimie (1989), 34(9-10), 1949-55
CODEN: RRCHAX; ISSN: 0035-3930
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 114:6361

L4 ANSWER 13 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1990:406148 CAPLUS Full-text
DOCUMENT NUMBER: 113:6148
TITLE: Heterocyclic 2,3-dihydrobenzofuran herbicides
INVENTOR(S): Semple, Joseph E.
PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co., USA
SOURCE: U.S., 57 pp. Cont.-in-part of U.S. Ser. No. 943,365, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4881967	A	19891121	US 1988-202086	19880602
DK 8706415	A	19880611	DK 1987-6415	19871207
AU 8782152	A	19880616	AU 1987-82152	19871207
JP 63156787	A	19880629	JP 1987-307797	19871207
BR 8706588	A	19880726	BR 1987-6588	19871207
ZA 8709171	A	19880831	ZA 1987-9171	19871207
CN 87107276	A	19881019	CN 1987-107276	19871207
CN 1021824	B	19930818		
DD 270532	A5	19890802	DD 1987-310042	19871207
US 4948418	A	19900814	US 1989-402178	19890830
US 5053071	A	19911001	US 1990-517892	19900502
PRIORITY APPLN. INFO.:			US 1986-943365 A2	19861210
			US 1988-202086 A3	19880602

			US 1989-402178 A3	19890830

OTHER SOURCE(S): CASREACT 113:6148; MARPAT 113:6148

L4 ANSWER 14 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1989:534108 CAPLUS Full-text
DOCUMENT NUMBER: 111:134108
TITLE: Synthesis of some new benzodiazepine and oxazepine derivatives of expected biological activity
AUTHOR(S): Habib, O. M. O.; Abd El-Gawad, I. I.; Badawy, D. S.
CORPORATE SOURCE: Fac. Sci., Mansoura Univ., Mansoura, Egypt
SOURCE: Polish Journal of Chemistry (1988), 62(4-6), 543-7
CODEN: PJCHDQ; ISSN: 0137-5083
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 111:134108

L4 ANSWER 15 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1988:21703 CAPLUS Full-text
DOCUMENT NUMBER: 108:21703
TITLE: Preparation of heterocyclic enol amide derivatives as pharmaceuticals
PATENT ASSIGNEE(S): Warner-Lambert Co., USA
SOURCE: Jpn. Kokai Tokkyo Koho, 78 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62081369	A	19870414	JP 1986-230231	19860930
US 4761424	A	19880802	US 1985-782623	19851001
ZA 8606973	A	19880427	ZA 1986-6973	19860912
AU 8663285	A	19870402	AU 1986-63285	19860929
AU 605747	B2	19910124		
DK 8604664	A	19870406	DK 1986-4664	19860930
EP 221345	A1	19870513	EP 1986-113489	19861001
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
ES 2002398	A6	19880801	ES 1986-2338	19861001
US 4921871	A	19900501	US 1987-121264	19871116
US 4874758	A	19891017	US 1988-164355	19880304
US 4868195	A	19890919	US 1988-165045	19880307
US 4868200	A	19890919	US 1988-166146	19880309
US 4868199	A	19890919	US 1988-167264	19880309
US 4868205	A	19890919	US 1988-167272	19880311
PRIORITY APPLN. INFO.:			US 1985-782623 A	19851001
			US 1987-121264 A3	19871116

OTHER SOURCE(S): CASREACT 108:21703; MARPAT 108:21703

L4 ANSWER 16 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1987:515478 CAPLUS Full-text
DOCUMENT NUMBER: 107:115478
TITLE: 2,3-Dihydrobenzo[b]furan derivatives
INVENTOR(S): Boeckelmann, Juergen; Fanghaenel, Egon; Grossmann, Norbert
PATENT ASSIGNEE(S): VEB Filmfabrik Wolfen, Fotochemisches Kombinat, Ger. Dem. Rep.
SOURCE: Ger. (East), 4 pp.
CODEN: GEXXA8
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DD 237164	A1	19860702	DD 1985-276162	19850510
PRIORITY APPLN. INFO.:			DD 1985-276162	19850510

OTHER SOURCE(S): CASREACT 107:115478

L4 ANSWER 17 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1979:481551 CAPLUS Full-text
DOCUMENT NUMBER: 91:81551
TITLE: Development of an imagewise exposed light-sensitive color photographic silver halide recording material with a color developer solution
INVENTOR(S): Fushiki, Isamu; Kamitakahara, Atushi; Mori, Keiichi
PATENT ASSIGNEE(S): Konishiroku Photo Industry Co., Ltd., Japan
SOURCE: Ger. Offen., 166 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2823063	A1	19781130	DE 1978-2823063	19780526
DE 2823063	C2	19831103		
JP 53146625	A	19781220	JP 1977-61917	19770526
JP 61023544	B	19860606		
US 4192680	A	19800311	US 1978-908913	19780524
PRIORITY APPLN. INFO.:			JP 1977-61917 A	19770526

L4 ANSWER 18 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1975:9972 CAPLUS Full-text
DOCUMENT NUMBER: 82:9972
TITLE: Photographic two-equivalent yellow couplers
INVENTOR(S): Kunitz, Friedrich W.; Kirchhoff, Gertrud
PATENT ASSIGNEE(S): Agfa-Gevaert A.-G.
SOURCE: Ger. Offen., 17 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2313989	A1	19740926	DE 1973-2313989	19730321
BE 812283	A2	19740916	BE 1974-1005793	19740314
CA 1016385	A1	19770830	CA 1974-195423	19740319
GB 1434472	A	19760505	GB 1974-12564	19740321
PRIORITY APPLN. INFO.:			DE 1973-2313989 A	19730321

L4 ANSWER 19 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1974:108307 CAPLUS Full-text
DOCUMENT NUMBER: 80:108307
TITLE: Synthesis of abutic acid (5,6-dimethoxycoumarone-2,3-dicarboxylic acid)
AUTHOR(S): Jha, O. P.
CORPORATE SOURCE: Dep. Chem., Bhagalpur Univ., Bhagalpur, India
SOURCE: Indian Journal of Chemistry (1973), 11(10), 989-90
CODEN: IJOCAP; ISSN: 0019-5103
DOCUMENT TYPE: Journal

LANGUAGE: English

L4 ANSWER 20 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1963:403485 CAPLUS Full-text
DOCUMENT NUMBER: 59:3485
ORIGINAL REFERENCE NO.: 59:606b-h,607a-b
TITLE: 2-Formyl-1,4-benzodioxane and 2-formyl-2,3-dihydrobenzofuran
AUTHOR(S): Misiti, Domenico; De Marchi, Franco; Rosnati, Vittorio
CORPORATE SOURCE: Ist. Super. Sanita, Rome
SOURCE: Gazzetta Chimica Italiana (1963), 93, 52-64
CODEN: GCITA9; ISSN: 0016-5603
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

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YOU HAVE REQUESTED DATA FROM 17 ANSWERS - CONTINUE? Y/(N):y

L4 ANSWER 4 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:1026943 CAPLUS Full-text
DOCUMENT NUMBER: 143:306325
TITLE: Substituted morpholine and thiomorpholine derivatives as potassium channel openers, their preparation, pharmaceutical compositions, and use
INVENTOR(S): Wenzel Tornoe, Christian; Rottlaender, Mario; Khanzhin, Nikolay; Ritzen, Andreas; Watson, William Patrick
PATENT ASSIGNEE(S): H. Lundbeck A/S, Den.
SOURCE: PCT Int. Appl., 88 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005087754	A1	20050922	WO 2005-DK159	20050309
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2005221762	A1	20050922	AU 2005-221762	20050309
CA 2559397	A1	20050922	CA 2005-2559397	20050309
EP 1727809	A1	20061206	EP 2005-706819	20050309
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				
CN 1930138	A	20070314	CN 2005-80007885	20050309
BR 2005008570	A	20070814	BR 2005-8570	20050309
JP 2007528880	T	20071018	JP 2007-502191	20050309
US 2006167248	A1	20060727	US 2005-314802	20051221
MX 2006PA10329	A	20061110	MX 2006-PA10329	20060911
IN 2006CN03297	A	20070706	IN 2006-CN3297	20060912
NO 2006004599	A	20061208	NO 2006-4599	20061010

PRIORITY APPLN. INFO.:	DK 2004-412	A	20040312
	US 2004-552574P	P	20040312
	WO 2005-DK159	W	20050309

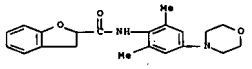
OTHER SOURCE(S): MARPAT 143:306325
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The invention relates to morpholine and thiomorpholine derivs. I, which are potassium channel openers. In compds. I, W is O or S; Z is a bond or O; R1 is selected from halo, cyano, C1-6 alkyl, C2-6 alkenyl, C2-6 alkynyl, C3-8 cycloalk(en)yl(oxy), etc.; R2 is selected from halo, cyano, C1-6 alkyl, C3-8 cycloalk(en)yl(oxy), (un)substituted Ph, (un)substituted pyridinyl, etc.; R3 is selected from C1-10 alkyl, C2-10 alkenyl, C2-10 alkynyl, C3-8 cycloalk(en)yl, aryl-C3-8 cycloalk(en)yl, aryl, etc.; and each of R4, R5, R6, and R7 is independently selected from H and aryl; as the free base or salts thereof. The invention also relates to the preparation of I, pharmaceutical compns. containing one or more of compds. I and one or more pharmaceutically acceptable carriers or diluents, as well as to the use of the compns. for the treatment of a disorder or disease responding to an increased ion flow in a potassium channel. 4-Nitro-2- (trifluoromethyl)aniline underwent ortho-bromination and reduction to give diamine II. II cyclized regioselectively with bis-(2-bromoethyl)ether to give the corresponding morpholine, which was acylated with 4-fluorophenylacetyl chloride resulting in the formation of morpholine derivative III. The compds. of the invention express an EC50 value of less than 20 μM, and in many cases less than 200 nM, in the assay of relative efflux through the KCNQ2 channel.

IT 864540-35-2P, 2,3-Dihydrobenzofuran-2-carboxylic acid (2,6-dimethyl-4-(morpholin-4-yl)phenyl)amide
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(drug candidate; preparation of substituted morpholine and thiomorpholine derivs. as potassium channel openers)

RN 864540-35-2 CAPLUS
CN 2-Benzofurancarboxamide, N-[2,6-dimethyl-4-(4-morpholinyl)phenyl]-2,3-dihydro- (CA INDEX NAME)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

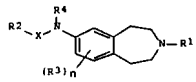
L4 ANSWER 5 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:564644 CAPLUS Full-text
DOCUMENT NUMBER: 143:97280
TITLE: Preparation of benzazepine derivatives as histamine H3 antagonists
INVENTOR(S): Bailey, Nicholas; Bamford, Mark James; Dean, David Kenneth; Pickering, Paula Louise; Wilson, David Matthew; Witherington, Jason
PATENT ASSIGNEE(S): Glaxo Group Limited, UK
SOURCE: PCT Int. Appl., 68 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent

LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

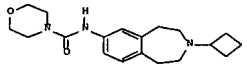
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005058837	A1	20050630	WO 2004-EP14380	20041215
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1713778	A1	20061025	EP 2004-803989	20041215
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, HR, IS				
JP 2007514690	T	20070607	JP 2006-544347	20041215
US 2007060566	A1	20070315	US 2006-596503	20060615

PRIORITY APPLN. INFO.:	GB 2003-29214	A	20031217
	WO 2004-EP14380	W	20041215

OTHER SOURCE(S): MARPAT 143:97280
GI



I



II

AB Title compds. I [R1 = (un)substituted cycloalkyl; R2 = H, alkyl, cycloalkyl, etc.; X = a bond, CO, CO2, etc.; R3 = halo, alkoxy, CN, etc.; R4 = H, aryl, heteroaryl, etc.; n = 0-2] and their pharmaceutically acceptable salts, are prepared and disclosed as antagonists of histamine H3. Thus, e.g., II was prepared by reductive amination of N-(2,3,4,5-tetrahydro- 1H-3-benzazepin-7-yl)-4-morpholinecarboxamide (preparation given) with cyclobutanone. The activity of I was evaluated in the histamine H3 functional antagonist assay and it was revealed that numerous compds. of the invention possessed antagonism > 6.5 pKb. I as histamine H3 antagonists should prove useful in the treatment of neurol. disorders. Pharmaceutical compns. comprising I are disclosed.

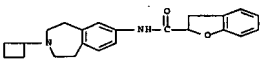
IT 856904-12-6P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of benzazepine derivs. as histamine H3 antagonists)

RN 856904-12-6 CAPLUS
CN 2-Benzofurancarboxamide, N-(3-cyclobutyl-2,3,4,5-tetrahydro-1H-3-benzazepin-7-yl)-2,3-dihydro-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 856904-11-5
CMF C23 H26 N2 O2



CM 2

CRN 76-05-1
CMF C2 H F3 O2

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:902373 CAPLUS Full-text
DOCUMENT NUMBER: 141:379923
TITLE: Preparation of phenylazole compounds as antioxidant drugs
INVENTOR(S): Mochiduki, Nobuo; Umeda, Nobuhiro; Uchida, Seiichi; Ikeyama, Seiichi; Tsubokura, Shiro; Takada, Mitsumasa
PATENT ASSIGNEE(S): Nippon Soda Co., Ltd., Japan
SOURCE: PCT Int. Appl., 45 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

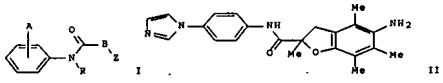
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004092163	A1	20041028	WO 2004-JP5237	20040413
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,				

BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2004230367	A1	20041028	AU 2004-230367	20040413
CA 2522266	A1	20041028	CA 2004-2522266	20040413
EP 1614688	A1	20060111	EP 2004-727126	20040413
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
US 2006189673	A1	20060824	US 2005-553108	20051013
PRIORITY APPLN. INFO.:			JP 2003-109667	A 20030414
			JP 2004-23032	A 20040130
			WO 2004-JP5237	W 20040413

OTHER SOURCE(S): MARPAT 141:379923

GI



I II

AB The title compds. I [wherein R = H or (un)substituted alkyl; A = (un)substituted imidazolyl or pyrazolyl; B = a bond or (un)substituted alkylene; Z = (un)substituted chroman-2-yl, 2,3-dihydrobenzofuran-2-yl, or 1,3-benzoxathiazol-2-yl] or pharmaceutically acceptable salts thereof are prepared as antioxidant drugs. For example, the compound II was prepared in a multi-step synthesis. II showed antioxidant activity with IC50 of 3.3 μM in rat. I are useful for the treatment of kidney disorders, cerebrovascular disorders, retinal oxidation disorders, etc. (no data). Formulations containing I as an active ingredient were also described.

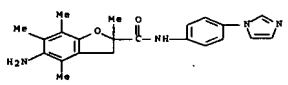
IT 784163-52-6P 784163-55-9P 784163-57-1P 784163-58-2P 784163-61-7P 784163-62-8P 784163-64-0P 784163-65-1P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of phenylazole compds. as antioxidant drugs)

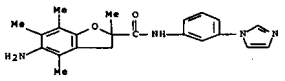
RN 784163-52-6 CAPLUS

CN 2-Benzofurancarboxamide, 5-amino-2,3-dihydro-N-[4-(1H-imidazol-1-yl)phenyl]-2,4,6,7-tetramethyl- (CA INDEX NAME)



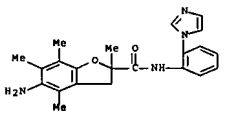
RN 784163-55-9 CAPLUS

CN 2-Benzofurancarboxamide, 5-amino-2,3-dihydro-N-[3-(1H-imidazol-1-yl)phenyl]-2,4,6,7-tetramethyl- (CA INDEX NAME)



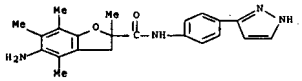
RN 784163-57-1 CAPLUS

CN 2-Benzofurancarboxamide, 5-amino-2,3-dihydro-N-[2-(1H-imidazol-1-yl)phenyl]-2,4,6,7-tetramethyl- (CA INDEX NAME)



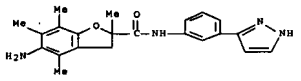
RN 784163-58-2 CAPLUS

CN 2-Benzofurancarboxamide, 5-amino-2,3-dihydro-2,4,6,7-tetramethyl-N-[4-(1H-pyrazol-3-yl)phenyl]- (CA INDEX NAME)



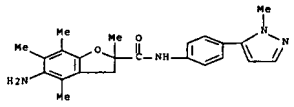
RN 784163-61-7 CAPLUS

CN 2-Benzofurancarboxamide, 5-amino-2,3-dihydro-2,4,6,7-tetramethyl-N-[3-(1H-pyrazol-3-yl)phenyl]- (CA INDEX NAME)



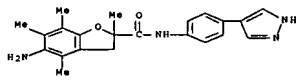
RN 784163-62-8 CAPLUS

CN 2-Benzofurancarboxamide, 5-amino-2,3-dihydro-2,4,6,7-tetramethyl-N-[4-(1-methyl-1H-pyrazol-5-yl)phenyl]- (CA INDEX NAME)



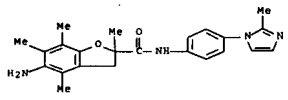
RN 784163-64-0 CAPLUS

CN 2-Benzofurancarboxamide, 5-amino-2,3-dihydro-2,4,6,7-tetramethyl-N-[4-(1H-pyrazol-4-yl)phenyl]- (CA INDEX NAME)



RN 784163-65-1 CAPLUS

CN 2-Benzofurancarboxamide, 5-amino-2,3-dihydro-2,4,6,7-tetramethyl-N-[4-(2-methyl-1H-imidazol-1-yl)phenyl]- (CA INDEX NAME)



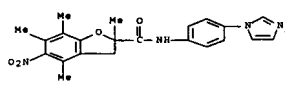
IT 784163-66-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate; preparation of phenylazole compds. as antioxidant drugs)

RN 784163-66-2 CAPLUS

CN 2-Benzofurancarboxamide, 2,3-dihydro-N-[4-(1H-imidazol-1-yl)phenyl]-2,4,6,7-tetramethyl-5-nitro- (CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:98525 CAPLUS Full-text

DOCUMENT NUMBER: 132:137396

TITLE: Phenylazole compounds, process for producing the same and drugs for hyperlipemia

INVENTOR(S): Umeda, Nobuhiro; Mochizuki, Nobuo; Uchida, Seiichi; Nishibe, Tadayuki; Yamada, Hirokazu; Ito, Kunihito; Horikoshi, Hiromi

PATENT ASSIGNEE(S): Nippon Soda Co., Ltd., Japan

SOURCE: PCT Int. Appl., 92 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

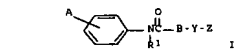
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000006550	A1	20000210	WO 1999-JP4070	19990729
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2339123	A1	20000210	CA 1999-2339123	19990729
AU 9949297	A1	20000221	AU 1999-49297	19990729
AU 753360	B2	20021017		
EP 1101759	A1	20010523	EP 1999-933152	19990729
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
CN 1131217	B	20031217	CN 1999-809019	19990729
JP 2000290280	A	20001017	JP 1999-216581	19990730
JP 2000281656	A	20001010	JP 1999-221789	19990804
JP 2000281658	A	20001010	JP 1999-221790	19990804
US 6342516	B1	20020129	US 2001-744786	20010126

PRIORITY APPLN. INFO.:

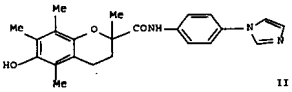
JP 1998-218316	A	19980731
JP 1998-222157	A	19980805
JP 1999-16846	A	19990126
JP 1999-19670	A	19990128
JP 1999-24318	A	19990201
WO 1999-JP4070	W	19990729

OTHER SOURCE(S): MARPAT 132:137396

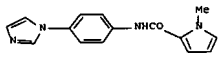
GI



I



II

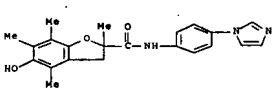


III

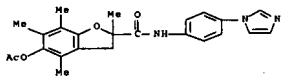
AB Phenylpyrazole and phenylimidazole compds. represented by general formula (I; wherein A represents (un)substituted imidazolyl or pyrazolyl; B represents (un)substituted (CH2)k or (CH:CH)k; Y = bond, O, S, SO2, CO, OCH2, C1-5 alkyl-(un)substituted NHCO or NH; Z = (un)substituted and saturated or unsatd. heterocycle containing 1 to 4 N, O or S atoms, (un)substituted benzoquinonyl or naphthoquinonyl) or pharmaceutically acceptable salts thereof are prepared Claimed are drugs for hyperlipemia which contain these compds. I as the active ingredient. Among all, compds. wherein Z is substituted chroman-2-yl, 2,3-dihydrobenzofuran-2-yl, etc. have an effect of inhibiting the formation of lipid peroxides too. Thus, 6-hydroxy-2,5,7,8-tetramethylchroman-2-carboxylic acid, 1-(4-aminophenyl)imidazole 4.0, 1-(3-dimethylaminopropyl)-3- ethylcarbodiimide hydrochloride 2.82, 1-hydroxybenzotriazole 2.72 g, and 2.5 mL Et3N were added to 30 mL DMF and stirred at room temperature for 20 h to give title compound (II). II and N-[4-(imidazol-1-yl)phenyl]-1-methyl-3- pyrrrolecarboxamide (III) at 25 mg/kg p.o. lowered total serum level of cholesterol 40 and 75%, resp., and serum triglyceride level by 62 and 91%, resp. A tablet formulation containing I was prepared

IT 256660-78-3P 256660-84-1P 256661-23-1P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of phenylazole compds. as hypolipidemics and inhibitors of lipid peroxide formation)

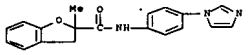
RN 256660-78-3 CAPLUS
CN 2-Benzofurancarboxamide, 2,3-dihydro-5-hydroxy-N-[4-(1H-imidazol-1-yl)phenyl]-2,4,6,7-tetramethyl- (CA INDEX NAME)



RN 256660-84-1 CAPLUS
CN 2-Benzofurancarboxamide, 5-(acetyloxy)-2,3-dihydro-N-[4-(1H-imidazol-1-yl)phenyl]-2,4,6,7-tetramethyl- (CA INDEX NAME)



RN 256661-23-1 CAPLUS
CN 2-Benzofurancarboxamide, 2,3-dihydro-N-[4-(1H-imidazol-1-yl)phenyl]-2-methyl- (CA INDEX NAME)

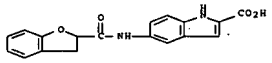


L4 ANSWER 8 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1997:716591 CAPLUS Full-text
DOCUMENT NUMBER: 128:57126
TITLE: Synthesis, cytotoxicity, antitumor activity and sequence selective binding of two pyrazole analogs structurally related to the antitumor agents U-71,184 and adozelesin
AUTHOR(S): Baraldi, Pier Giovanni; Cacciari, Barbara; Romagnoli, Romeo; Spalluto, Giampiero; Gambari, Roberto; Bianchi, Nicoletta; Passadore, Marco; Ambrosino, Piera; Mongelli, Nicola; Cozzi, Paolo; Geroni, Cristina
CORPORATE SOURCE: Dipartimento di Scienze Farmaceutiche, Ferrara, I-44100, Italy
SOURCE: Anti-Cancer Drug Design (1997), 12(7), 555-576
CODEN: ACDDEA; ISSN: 0266-9536
PUBLISHER: Oxford University Press
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Two pyrazole analogs structurally related to the antitumor agents adozelesin and U-71,184 resp. were synthesized. By using a polymerase chain reaction approach, both compds. show selective binding to A + T rich sequences exactly as reference compound U-71,184. In in vitro assays, against L1210 cell lines, both derivs. showed cytotoxicity in the pM range, values comparable with the natural target compound (+)-CC-1065. The most active compound showed very high antitumor activity in mice implanted with L1210 cells (ILS% 363).

IT 200264-86-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and antitumor activity and DNA binding of pyrazole analogs related to U-71,814 and adozelesin)

RN 200264-86-4 CAPLUS
CN 1H-Indole-2-carboxylic acid, 5-[[(2,3-dihydro-2-benzofuranyl)carbonyl]amino]- (9CI) (CA INDEX NAME)

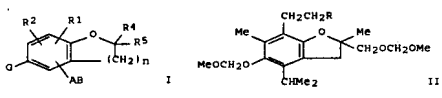


REFERENCE COUNT: 55 THERE ARE 55 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 9 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1996:466908 CAPLUS Full-text
DOCUMENT NUMBER: 125:114620
TITLE: Preparation of (imidazolylethyl)benzofuran derivatives as 5-lipoxygenase inhibitors
INVENTOR(S): Hasegawa, Tomoyuki; Hachitani, Katsutoshi; Nanbu, Fumio; Oonada, Shuichi
PATENT ASSIGNEE(S): Ono Pharmaceutical Co, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 120 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

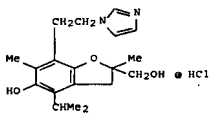
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08109179	A	19960430	JP 1994-270614	19941007
PRIORITY APPLN. INFO.:			JP 1994-270614	19941007

OTHER SOURCE(S): MARPAT 125:114620
GI



I

II



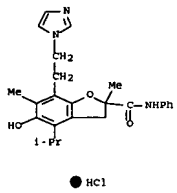
IV

AB The title compds. [I; A = C1-8 alkylene; B = 5-7-membered heterocycle containing 1-2 N atoms; G = OH, C1-4 alkoxy, dialkylamino, etc.; R1, R2 = DE (wherein D = bond, C1-8 alkylene, etc.; E = OH, C1-4 alkyl, cyano, alkoxycarbonyl, etc.); R4, R5 = H, C1-8 alkyl, DE, etc.; n = 1-3], effective in treating and preventing thrombosis, atherosclerosis, etc., are prepared and formulated. Mesylation of ethanol derivative II (R = OH) (preparation given) gave mesylate II (R = MeSO3), which was heated with imidazole in toluene with stirring at 100° to give imidazole derivative II (R = 1-imidazolyl) (III). Hydrolysis of III with 4N HCl in MeOH gave diol salt IV, which showed 59% and 96% inhibition against LTB4 and TXB2, resp., at μM.

IT 174856-03-2P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of (imidazolylethyl)benzofuran derivs. as 5-lipoxygenase

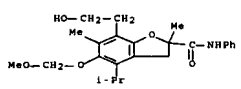
inhibitors)

RN 174856-03-2 CAPLUS
CN 2-Benzofurancarboxamide, 2,3-dihydro-5-hydroxy-7-[2-(1H-imidazol-1-yl)ethyl]-2,6-dimethyl-4-(1-methylethyl)-N-phenyl-, monohydrochloride (9CI) (CA INDEX NAME)



IT 174857-11-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of (imidazolylethyl)benzofuran derivs. as 5-lipoxygenase inhibitors)

RN 174857-11-5 CAPLUS
CN 2-Benzofurancarboxamide, 2,3-dihydro-7-(2-hydroxyethyl)-5-(methoxymethoxy)-2,6-dimethyl-4-(1-methylethyl)-N-phenyl- (9CI) (CA INDEX NAME)

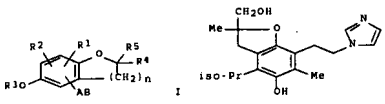


L4 ANSWER 10 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1996:196719 CAPLUS Full-text
DOCUMENT NUMBER: 124:261034
TITLE: Preparation and formulation of dihydrobenzofuranylalkylimidazoles and analogs as antiinflammatory agents, antioxidants, and thromboxane A2 synthetase inhibitors
INVENTOR(S): Hasegawa, Tomoyuki; Hachitani, Katsutoshi; Nanbu, Fumio; Oonada, Shuichi
PATENT ASSIGNEE(S): Ono Pharmaceutical Co, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 55 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

JP 07316150	A	19951205	JP 1994-133575	19940524
PRIORITY APPLN. INFO.:			JP 1994-133575	19940524

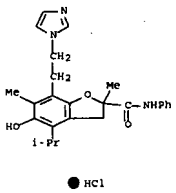
OTHER SOURCE(S): MARPAT 124:261034
GI



AB The title compds. I [R1, R2 = H, halo, etc.; A = alkylene, etc.; B = N-containing heterocyclic ring; R3 = H, acyl, etc.; R4 = H, alkyl, phenylalkyl; R5 = DE; D = alkylene, etc.; E = NR9R10, etc.; R9, R10 = H, alkyl, etc.; n = 1 - 3] are prepared The title compound II.HCl was prepared in a multistep process starting from 2-(2-pivaloyloxyethyl)-3-methyl-4- acetyloxy-5-isopropyl-6-(2-methyl-2-propenyl)phenol. II.HCl in vitro at 10 μM gave 96% inhibition of thromboxane B2 formation.

IT 174856-03-2P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of dihydrobenzofuranylalkylimidazoles and analogs as antiinflammatory agents, antioxidants, and thromboxane A2 synthetase inhibitors)

RN 174856-03-2 CAPLUS
CN 2-Benzofurancarboxamide, 2,3-dihydro-5-hydroxy-7-[2-(1H-imidazol-1-yl)ethyl]-2,6-dimethyl-4-(1-methylethyl)-N-phenyl-, monohydrochloride (9CI) (CA INDEX NAME)

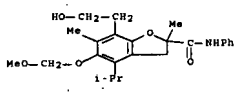


● HCl

IT 174857-11-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of dihydrobenzofuranylalkylimidazoles and analogs as antiinflammatory agents, antioxidants, and thromboxane A2 synthetase inhibitors)

RN 174857-11-5 CAPLUS

CN 2-Benzofurancarboxamide, 2,3-dihydro-7-(2-hydroxyethyl)-5-(methoxymethoxy)-2,6-dimethyl-4-(1-methylethyl)-N-phenyl- (9CI) (CA INDEX NAME)



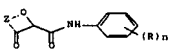
L4 ANSWER 11 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:	1993:570378 CAPLUS Full-text
DOCUMENT NUMBER:	119:170378
TITLE:	Silver halide color photographic photosensitive materials containing two-equivalent yellow couplers
INVENTOR(S):	Ikesu, Satoru; Kita, Hiroshi; Kaneko, Yutaka
PATENT ASSIGNEE(S):	Konica Co., Japan
SOURCE:	Jpn. Kokai Tokkyo Koho, 20 pp. CODEN: JKXXAF
DOCUMENT TYPE:	Patent
LANGUAGE:	Japanese
FAMILY ACC. NUM. COUNT:	1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04353844	A	19921208	JP 1991-153803	19910530
PRIORITY APPLN. INFO.:			JP 1991-153803	19910530

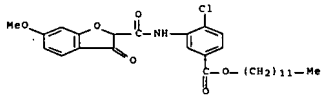
GI



AB The title photosensitive materials contain yellow couplers I (Z = nonmetallic atoms for forming 5-7-membered heterocyclic ring which may have substituents and condensed ring; R = substituent; n = 0-5). The invention produces photosensitive materials having good color rendition and provides high-quality color images having sufficient color d. and superior sharpness.

IT 150004-08-3
RL: USES (Uses)
(two-equivalent yellow photog. coupler)

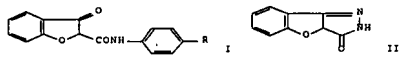
RN 150004-08-3 CAPLUS
CN Benzoic acid, 4-chloro-3-[[(2,3-dihydro-6-methoxy-3-oxo-2-benzofuranyl)carbonyl]amino]-, dodecyl ester (9CI) (CA INDEX NAME)



L4 ANSWER 12 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:	1991:6361 CAPLUS Full-text
DOCUMENT NUMBER:	114:6361
TITLE:	Synthesis and reactions of some new benzofurano[3,2-c]pyrazol-3-one and benzofurano[3,2-c]isoxazol-3-one derivatives of expected biological activity
AUTHOR(S):	Habib, O. M. O.; Abd El-Rahman, A. H.; Badawy, D. S.
CORPORATE SOURCE:	Fac. Sci., Mansoura Univ., Mansoura, Egypt
SOURCE:	Revue Roumaine de Chimie (1989), 34(9-10), 1949-55 CODEN: RRCHAX; ISSN: 0035-3930
DOCUMENT TYPE:	Journal
LANGUAGE:	English
OTHER SOURCE(S):	CASREACT 114:6361

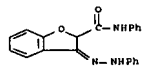
GI



AB Me salicylate condensed with α-chloroacetanilides to give the benzofurano-β-ketoanilides I (R = H, Cl, OMe). Treatment of I with N2H4.H2O, PhNHNH2, HONH2.HCl, polyphosphoric acid, and Mannich bases was studied. Reaction of the pyrazolone derivative II with ClCH2COCl, PhN2+ Cl-, and Mannich bases was also investigated.

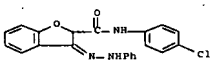
IT 130968-20-6P 130968-21-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and intramol. cyclocondensation of)

RN 130968-20-6 CAPLUS
CN 2-Benzofurancarboxamide, 2,3-dihydro-N-phenyl-3-(phenylhydrazono)- (9CI) (CA INDEX NAME)



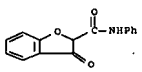
RN 130968-21-7 CAPLUS
CN 2-Benzofurancarboxamide, N-(4-chlorophenyl)-2,3-dihydro-3-

(phenylhydrazono)- (9CI) (CA INDEX NAME)

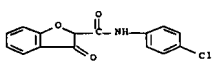


IT 122529-46-8P 130968-18-2P 130968-19-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reactions of)

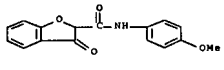
RN 122529-46-8 CAPLUS
CN 2-Benzofurancarboxamide, 2,3-dihydro-3-oxo-N-phenyl- (9CI) (CA INDEX NAME)



RN 130968-18-2 CAPLUS
CN 2-Benzofurancarboxamide, N-(4-chlorophenyl)-2,3-dihydro-3-oxo- (9CI) (CA INDEX NAME)

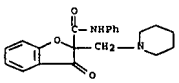


RN 130968-19-3 CAPLUS
CN 2-Benzofurancarboxamide, 2,3-dihydro-N-(4-methoxyphenyl)-3-oxo- (9CI) (CA INDEX NAME)



IT 130968-24-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 130968-24-0 CAPLUS
CN 2-Benzofurancarboxamide, 2,3-dihydro-3-oxo-N-phenyl-2-(1-piperidinylmethyl)-, monohydrochloride (9CI) (CA INDEX NAME)

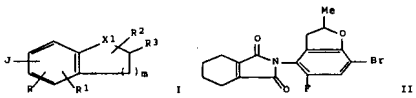


● HCl

L4 ANSWER 13 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1990:406148 CAPLUS Full-text
DOCUMENT NUMBER: 113:6148
TITLE: Heterocyclic 2,3-dihydrobenzofuran herbicides
INVENTOR(S): Semple, Joseph E.
PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co., USA
SOURCE: U.S., 57 pp. Cont.-in-part of U.S. Ser. No. 943,365, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

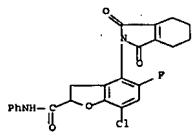
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4881967	A	19891121	US 1988-202086	19880602
DK 8706415	A	19880611	DK 1987-6415	19871207
AU 8782152	A	19880616	AU 1987-82152	19871207
JP 63156787	A	19880629	JP 1987-307797	19871207
BR 8706588	A	19880726	BR 1987-6588	19871207
ZA 8709171	A	19880831	ZA 1987-9171	19871207
CN 87107276	A	19881019	CN 1987-107276	19871207
CN 1021824	B	19930818		
DD 270532	A5	19890802	DD 1987-310042	19871207
US 4948418	A	19900814	US 1989-402178	19890830
US 5053071	A	19911001	US 1990-517892	19900502
PRIORITY APPLN. INFO.:			US 1986-943365 A2	19861210
			US 1988-202086 A3	19880602
			US 1989-402178 A3	19890830

OTHER SOURCE(S): CASREACT 113:6148; MARPAT 113:6148
GI

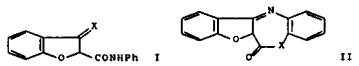


I II

AB Title compds. I (R = H, Cl, F, C1-2 alkyl, C1-3 alkoxy; R1 = H, Br, Cl, F, Me, MeO, cyano, F3C, F3CO, HF2CO; X1 = O, S; R2 = H, Me, Et; R3 = H, C1-4 haloalkyl, cyano, COCl, H2C:CH, HC.tplbond.C, MeO2CCHMeNHCOCHMeNHCO, etc.; R4 = H, C1-4 alkyl, C1-4 haloalkyl, C2-6 alkenyl, C3-6 alkynyl; C2-4 haloalkenyl, Ph, etc.; m = 1, 2; J = substituted heterocyclyl) are prepared 3,4,5,6-Tetrahydrophthalic anhydride, 3-(H2N)C6H4OH and AcOH were refluxed for 1 h to give N-(3-hydroxyphenyl)-3,4,5,6-tetrahydrophthalimide, which was converted via etherification with allyl bromide, thermal rearrangement to the N-(2- and 4-allyl-3-hydroxyphenyl) compds., and acid-catalyzed cyclization of the former isomer to give I [J = 6-(3,4,5,6- tetrahydrophthalimido); X1 = O; R = R1 = R2 = H; R3 = Me; m = 1]. The benzofuran II at 0.05 kg/ha gave complete kill of morning glory and barnyardgrass seeds treated postemergence and maintained in a greenhouse. A large number of compds. were tested.
IT 127442-85-7P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as herbicide)
RN 127442-85-7 CAPLUS
CN 2-Benzofurancarboxamide, 7-chloro-5-fluoro-4-(1,3,4,5,6,7-hexahydro-1,3-dioxo-2H-isoindol-2-yl)-2,3-dihydro-N-phenyl- (9CI) (CA INDEX NAME)



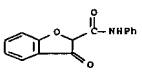
L4 ANSWER 14 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1989:534108 CAPLUS Full-text
DOCUMENT NUMBER: 111:134108
TITLE: Synthesis of some new benzodiazepine and oxazepine derivatives of expected biological activity
AUTHOR(S): Habib, O. M. O.; Abd El-Gawad, I. I.; Badawy, D. S.
CORPORATE SOURCE: Fac. Sci., Mansoura Univ., Mansoura, Egypt
SOURCE: Polish Journal of Chemistry (1988), 62(4-6), 543-7
CODEN: PJCHDQ; ISSN: 0137-5083
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 111:134108
GI



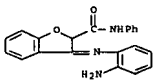
I II

AB Condensation of β-keto anilides, e.g. I (X = O) with o-H2NC6H4X1H (X1 = NH, O), gave Schiff bases, e.g. I (X = NC6H4X1H-2). Cyclization of the Schiff bases in AcOH or

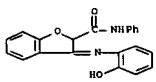
polyphosphoric acid gave benzodiazepines, e.g. II (X = NH), and benzoxazepines, e.g. II (X = O). Benzodiazepines, e.g. II (X = NH), were obtained directly by the cyclocondensation of β-keto anilides, e.g. I (X = O), with o-(H2N)2C6H4.
IT 122529-44-8
RL: RCT (Reactant); RACT (Reactant or reagent)
(condensation reactions with o-phenylenediamine and o-aminophenol)
RN 122529-46-8 CAPLUS
CN 2-Benzofurancarboxamide, 2,3-dihydro-3-oxo-N-phenyl- (9CI) (CA INDEX NAME)



IT 122529-49-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclization of, benzyldiazepine derivative from)
RN 122529-49-1 CAPLUS
CN 2-Benzofurancarboxamide, 3-[(2-aminophenyl)imino]-2,3-dihydro-N-phenyl- (9CI) (CA INDEX NAME)



IT 122529-55-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclization of, oxazepine derivative from)
RN 122529-55-9 CAPLUS
CN 2-Benzofurancarboxamide, 2,3-dihydro-3-[(2-hydroxyphenyl)imino]-N-phenyl- (9CI) (CA INDEX NAME)

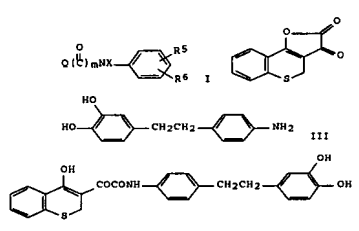


L4 ANSWER 15 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1988:21703 CAPLUS Full-text
DOCUMENT NUMBER: 108:21703

TITLE: Preparation of heterocyclic enol amide derivatives as pharmaceuticals
PATENT ASSIGNEE(S): Warner-Lambert Co., USA
SOURCE: Jpn. Kokai Tokkyo Koho, 78 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62081369	A	19870414	JP 1986-230231	19860930
US 4761424	A	19880802	US 1985-782623	19851001
ZA 8606973	A	19880427	ZA 1986-6973	19860912
AU 8663285	A	19870402	AU 1986-63285	19860929
AU 605747	B2	19910124		
DK 8604664	A	19870406	DK 1986-4664	19860930
EP 221345	A1	19870513	EP 1986-113489	19861001
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
ES 2002398	A6	19880801	ES 1986-2338	19861001
US 4921871	A	19900501	US 1987-121264	19871116
US 4874758	A	19891017	US 1988-164355	19880304
US 4868195	A	19890919	US 1988-165045	19880307
US 4868200	A	19890919	US 1988-166146	19880309
US 4868199	A	19890919	US 1988-167264	19880309
US 4868205	A	19890919	US 1988-167272	19880311
PRIORITY APPLN. INFO.:			US 1985-782623 A	19851001
			US 1987-121264 A3	19871116

OTHER SOURCE(S): CASREACT 108:21703; MARPAT 108:21703
GI

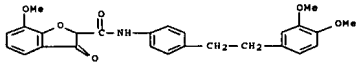


I II III IV

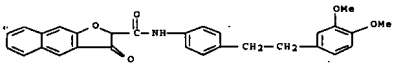
AB The title compds. (I; Q = benzofuryl, benzothienyl, indolyl, benzopyranyl, benzothiopyranyl, etc.; R5 = H, C1-4 alkyl, alkoxy, C2-4 carbalkoxy, etc.; R6 = C6-20 alkyl, styryl, etc.; X = H, alkyl; m = 1, 2), useful as pharmaceuticals, are prepared A mixture of 0.085 mol furandione derivative II and 0.0749 mol aniline derivative III in THF was stirred at room temperature under N, the solvent distilled in vacuo, and the solid product was refluxed in CH2Cl2 to give 85.2% enol amide IV. I showed ID50 against 5-lipoxygenase at 1.06-9.30M.
IT 111926-22-8P 111926-23-9P 111926-26-4P

111944-94-6P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as drug)

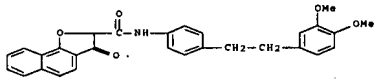
RN 111926-22-8 CAPLUS
CN 2-Benzofurancarboxamide, N-[4-[2-(3,4-dimethoxyphenyl)ethyl]phenyl]-2,3-dihydro-7-methoxy-3-oxo- (9CI) (CA INDEX NAME)



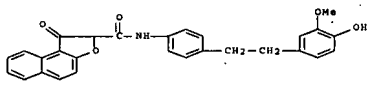
RN 111926-23-9 CAPLUS
CN Naphtho[2,3-b]furan-2-carboxamide, N-[4-[2-(3,4-dimethoxyphenyl)ethyl]phenyl]-2,3-dihydro-3-oxo- (9CI) (CA INDEX NAME)



RN 111926-28-4 CAPLUS
CN Naphtho[1,2-b]furan-2-carboxamide, N-[4-[2-(3,4-dimethoxyphenyl)ethyl]phenyl]-2,3-dihydro-3-oxo- (9CI) (CA INDEX NAME)



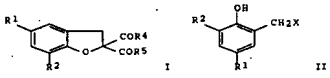
RN 111944-94-6 CAPLUS
CN Naphtho[2,1-b]furan-2-carboxamide, 1,2-dihydro-N-[4-[2-(4-hydroxy-3-methoxyphenyl)ethyl]phenyl]-1-oxo- (9CI) (CA INDEX NAME)



L4 ANSWER 16 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1987:515478 CAPLUS Full-text
DOCUMENT NUMBER: 107:115478
TITLE: 2,3-Dihydrobenzo[b]furan derivatives
INVENTOR(S): Boeckelmann, Juergen; Fanghaenel, Egon; Grossmann, Norbert
PATENT ASSIGNEE(S): VEB Filmfabrik Wolfen, Fotochemisches Kombinat, Ger. Dem. Rep.
SOURCE: Ger. (East), 4 pp.
CODEN: GEXXA8
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DD 237164	A1	19860702	DD 1985-276162	19850510
PRIORITY APPLN. INFO.:			DD 1985-276162	19850510

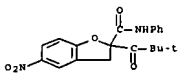
OTHER SOURCE(S): CASREACT 107:115478
GI



AB Benzofurans I [R1, R2 = H, halo, NO2, carbalkoxy, acylamido; R4, R5 = (un)substituted alkyl, cycloalkyl, or aryl, alkoxy, aryloxy, (un)substituted NH2], useful as intermediates for plant protective agents, pharmaceuticals, aromas, and in the photog. industry, were prepared by cyclization of phenols II [X = halo, OSO2R3; R3 = (un)substituted aryl] with R4COCHYCOR5 (Y = halo) via an intermediate betaine. 2,4-ClCH2(O2N)C6H3OH in Me2CO was treated with NEt3 in Me2CO to give 85% intermediate betaine which cyclized with MeCOCHClCO2Et and NEt3 in refluxing MeCN to give .apprx.90% I (R1 = NO2, R2 = H, R4 = OEt, R5 = Me).

IT 110110-75-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as intermediate for photog. substances, pharmaceuticals, plant protectants, and aromas)

RN 110110-75-3 CAPLUS
CN 2-Benzofurancarboxamide, 2-(2,2-dimethyl-1-oxopropyl)-2,3-dihydro-5-nitro-N-phenyl- (9CI) (CA INDEX NAME)

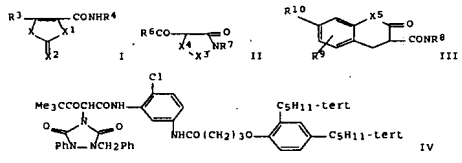


L4 ANSWER 17 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1979:481551 CAPLUS Full-text

DOCUMENT NUMBER: 91:81551
TITLE: Development of an imagewise exposed light-sensitive color photographic silver halide recording material with a color developer solution
INVENTOR(S): Fushiki, Isamu; Kamitakahara, Atushi; Mori, Keiichi
PATENT ASSIGNEE(S): Konishiroku Photo Industry Co., Ltd., Japan
SOURCE: Ger. Offen., 166 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2823063	A1	19781130	DE 1978-2823063	19780526
DE 2823063	C2	19831103		
JP 53146625	A	19781220	JP 1977-61917	19770526
JP 61023544	B	19860606		
US 4192680	A	19800311	US 1978-908913	19780524
PRIORITY APPLN. INFO.:			JP 1977-61917 A	19770526

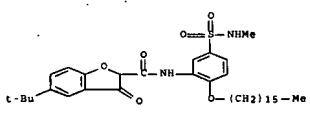
GI



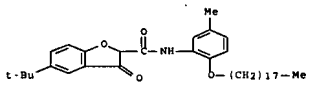
AB Yellow couplers having the formulas RCOCHR1CONHR2 (R = alkyl, cycloalkyl, or aryl; R1 = a heterocycle; R2 = aryl or a heterocycle), I (R3 = alkyl, cycloalkyl, aryl, or a heterocycle; R4 = aryl or a heterocycle; X, X1 = O or NR5 where R5 = alkyl, aryl, or acyl, and X and X1 are not the same; X2 = O, S), II (R6 = alkyl, cycloalkyl, aryl, or a heterocycle; R7 = H or R3 above; X3 = CO, CS, O, S, alkylene, arylene, or a divalent heterocycle; X4 = O, S, acylimino, or sulfonylimino), and III (R8 = aryl; R9 = a noncleavable group; R10 = H, halogen, alkyl, alkoxy, aryloxy, acylamino; X5 = a bond or CMe2) can be used in rapid processable color photog. materials to give yellow images with outstanding grain and no color fog resulting from the presence of a fixing agent in the color developers. Developers for use with these materials contain ≥0.029 mol/L of Br-. Thus, a gelatin Ag(Br,I) emulsion containing IV at 2 + 10-1 mol/mol Ag halide was coated on a support at 1.2 g Ag/m2, dried, step wedge exposed, and color developed in a developer containing NaBr 7.0 g/L to give a RMS granularity of 41 vs. 76 for a control developed in a developer containing NaBr 1.2 g/L.

IT 53812-46-7 53812-50-3
RL: USES (Uses)
(photog. yellow coupler for images with improved grain and decreased fog)

RN 53812-46-7 CAPLUS
CN 2-Benzofurancarboxamide, 5-(1,1-dimethylethyl)-N-[2-(hexadecyloxy)-5-[(methylamino)sulfonyl]phenyl]-2,3-dihydro-3-oxo- (9CI) (CA INDEX NAME)



RN 53812-50-3 CAPLUS
CN 2-Benzofurancarboxamide, 5-(1,1-dimethylethyl)-2,3-dihydro-N-[5-methyl-2-(octadecyloxy)phenyl]-3-oxo- (9CI) (CA INDEX NAME)



L4 ANSWER 18 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1975:9972 CAPLUS Full-text
DOCUMENT NUMBER: 82:9972
TITLE: Photographic two-equivalent yellow couplers
INVENTOR(S): Kunitz, Friedrich W.; Kirchhoff, Gertrud
PATENT ASSIGNEE(S): Agfa-Gevaert A.-G.
SOURCE: Ger. Offen., 17 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

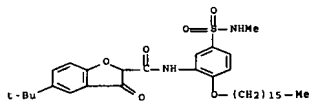
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2313989	A1	19740926	DE 1973-2313989	19730321
BE 812283	A2	19740916	BE 1974-1005793	19740314
CA 1016385	A1	19770830	CA 1974-195423	19740319
GB 1434472	A	19760505	GB 1974-12564	19740321
PRIORITY APPLN. INFO.:			DE 1973-2313989 A	19730321

GI For diagram(s), see printed CA Issue.

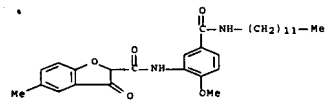
AB The coumaranone derivs. I (e.g. R = alkyl; R1 = alkoxy, NEt2, or Cl; R2 = H, Me, or SO2NHMe) were used as photog. 2-equivalent yellow couplers neither increasing the base fog of the color-photog. material nor retarding the development, nor causing color fading, as the coupling group is not cleaved off during the coupling reaction.

IT 53812-46-7 53812-47-8 53812-48-9
53812-49-0 53812-50-3 53812-51-4
RL: USES (Uses)
(photog. 2-equivalent yellow coupler)

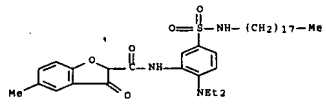
RN 53812-46-7 CAPLUS
CN 2-Benzofurancarboxamide, 5-(1,1-dimethylethyl)-N-[2-(hexadecyloxy)-5-[(methylamino)sulfonyl]phenyl]-2,3-dihydro-3-oxo- (9CI) (CA INDEX NAME)



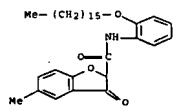
RN 53812-47-8 CAPLUS
CN 2-Benzofurancarboxamide, N-[5-[(dodecylamino)carbonyl]-2-methoxyphenyl]-2,3-dihydro-5-methyl-3-oxo- (9CI) (CA INDEX NAME)



RN 53812-48-9 CAPLUS
CN 2-Benzofurancarboxamide, N-[2-(diethylamino)-5-[(octadecylamino)sulfonyl]phenyl]-2,3-dihydro-5-methyl-3-oxo- (9CI) (CA INDEX NAME)

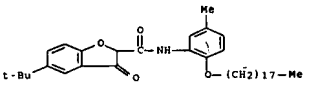


RN 53812-49-0 CAPLUS
CN 2-Benzofurancarboxamide, N-[2-(hexadecyloxy)phenyl]-2,3-dihydro-5-methyl-3-oxo- (9CI) (CA INDEX NAME)

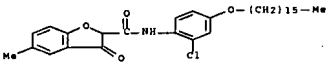


RN 53812-50-3 CAPLUS

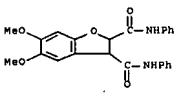
CN 2-Benzofurancarboxamide, 5-(1,1-dimethylethyl)-2,3-dihydro-N-[5-methyl-2-(octadecyloxy)phenyl]-3-oxo- (9CI) (CA INDEX NAME)



RN 53812-51-4 CAPLUS
CN 2-Benzofurancarboxamide, N-[2-chloro-4-(hexadecyloxy)phenyl]-2,3-dihydro-5-methyl-3-oxo- (9CI) (CA INDEX NAME)

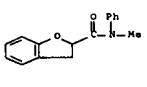


L4 ANSWER 19 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1974:108307 CAPLUS Full-text
DOCUMENT NUMBER: 80:108307
TITLE: Synthesis of abutic acid (5,6-dimethoxycoumarone-2,3-dicarboxylic acid)
AUTHOR(S): Jha, O. P.
CORPORATE SOURCE: Dep. Chem., Bhagalpur Univ., Bhagalpur, India
SOURCE: Indian Journal of Chemistry (1973), 11(10), 989-90
CODEN: IJOCAP; ISSN: 0019-5103
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB 2,4,5-(MeO)3C6H2CO2H was treated with SOCl2 and CH2N2 and the resulting diazoacetophenone cyclized with HOAc to give 5,6-dimethoxycoumaran-3-one, which was treated in HOAc with NaNO2 followed by HCl to give (5,6-dimethoxy-2-hydroxyphenyl)glyoxylic acid. The glyoxylic acid was cyclized with Ac2O and the resulting 5,6-dimethoxycoumaran-2,3-dione cleaved with MeONa to give Me [2-(methoxycarbonyl)methoxy-4,5- dimethoxyphenyl]glyoxylate which was cyclized with MeONa to give abutic acid I.
IT 52196-52-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 52196-52-8 CAPLUS
CN 2,3-Benzofurandicarboxamide, 2,3-dihydro-5,6-dimethoxy-N,N'-diphenyl- (9CI) (CA INDEX NAME)



L4 ANSWER 20 OF 20 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1963:403485 CAPLUS Full-text
DOCUMENT NUMBER: 59:3485
ORIGINAL REFERENCE NO.: 59:606b-h,607a-b
TITLE: 2-Formyl-1,4-benzodioxane and 2-formyl-2,3-dihydrobenzofuran
AUTHOR(S): Misiti, Domenico; De Marchi, Franco; Rosnati, Vittorio
CORPORATE SOURCE: Ist. Super. Sanita, Rome
SOURCE: Gazzetta Chimica Italiana (1963), 93, 52-64
CODEN: GCITA9; ISSN: 0016-5603
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
GI For diagram(s), see printed CA Issue.
AB cf. CA 57, 8561h. PhNHMe (0.17 mole) in 100 ml. dry CHCl3 slowly treated with 0.075 mole 1,4-benzodioxane-2-carboxylic acid chloride in 50 ml. CHCl3 and the mixture refluxed 4 hrs., washed with dilute HCl, aqueous Na2CO3, and H2O, and the dried (CaCl2) solution evaporated, the residue distilled at 160-5°/0.08 mm., and the oily product (20 g.) recrystd. from dilute MeOH gave the anilide (I, R = CONMePh) (II), m. 91-2°. II (47.5 g.) in 250 ml. dry tetrahydrofuran stirred at -5° with addition of 220 ml. 0.45M LiAlH4 in tetrahydrofuran below 0° and the mixture stirred 2 hrs. at 7°, treated with 360 ml. 9N H2SO4, the acid aqueous layer diluted with 300 ml. H2O, saturated with NaCl, and extracted repeatedly with Et2O, the dried (CaCl2) extract evaporated, and the residue distilled yielded 60% I (R = CHO) (III), b0.08 69-72°, transformed on long standing into a glassy substance, (C9H8O3)3.H2O, m. 64-7°; and 7.5 g. partially crystalline fraction, b0.05, 85-95° recrystd. from 1:1 C6H6-C6H14 to give 1.5 g. I (R = CH2OH) (IV), m. 84-6°. The mother liquors concentrated and the residue distilled gave 6 g. hemiacetal (of III with IV), b0.04 90-5° ν 3448, 3125, 2899, 1595, 1497, 1464, 1391, 1302, I269, 1198, 1147, 1110-1040, 927, 905, 840,750 cm.-1 (neat), also prepared by refluxing equimolar amts. of III and IV in CHCl3 saturated with dry HCl. The distillation gave a 3rd viscous liquid fraction (5 g.), b0.05 140-200°, infrared spectrum in CHCl3 lacking absorption bands in the CO region and showing a smooth badly resolved band in the 1200-800 cm.-1 region. PhNHMe (0.110 mole) in 30 m. dry C6H6 added with stirring and cooling (ice bath) to 0.054 mole 1,4-benzodioxane-2-acetyl chloride and the mixture refluxed 30 min., filtered from PhNHMe.HCl, the filtrate washed with 2N HCl, 2N NaOH, and H2O, the dried (Na2SO4) solution evaporated, and the product crystallized from Et2O yielded 96% I (R = CH2CONMePh) (V), m. 85-7°, recrystd. to give a sample, m. 87-8° (C6H14). V (0.025 mole) in 250 ml. Et2O at -5° stirred with gradual addition of 25 ml. 0.55 M LiAlH4 in Et2O (0.014 mole), the aqueous phase extracted twice with Et2O, and the combined dried Et2O solns. evaporated yielded 85% I (R = CH2CHO) (VI), b0.1 79-80°, ν 2857, 1730, 1592, 1490, 1474, 1300, 1266, 1250, 1195, 1089, 1046, 993, 960, 924, 905, 850 cm.-1 (CCl4); p-nitrophenylhydrazone m. 169-70°(alc.); 2,4-dinitrophenylhydrazone m. 136-7° (MeOH). SOCl2 (23 ml.) refluxed 6 hrs. with 20 g. 2,3-dihydrobenzofuran-2- carboxylic acid in 200 ml. dry C6H6 and the volatile components evaporated in vacuo yielded 90% 2,3-dihydrobenzofuran-2-carboxylic acid chloride, b0.02 71-3°. The acid chloride (0.094 mole) in 200 ml. dry C6H6 treated slowly with 30 g. PhNHMe in 60 ml C6H6, the mixture refluxed 30 min., and the product isolated and crystallized from Et2O yielded 98% material, m. 83-6°, recrystd. from petr. ether to give the anilide (VII, R = CONMePh) (VIII), m. 87-8°. VIII (0.06 mole) in 1 l. dry Et2O at -5° stirred with addition of 60 ml. 0.57M LiAlH4 (0.034 mole) in Et2O below 0°, the mixture stirred 7 hrs. below 0°, treated with 120 ml. 6N H2SO4, and extracted repeatedly with Et2O, and the dried extract concentrated and filtered gave 1.0 g. VII [R = CH(OH)2] (IX), m. 70-2°. The filtrate evaporated and the residue distilled gave 56% VII (R = CHO) (X), b0.02 48-52°; p-nitrophenylhydrazone m. 172-3° (alc.); 2,4-dinitrophenyl-hydrazone m. 175-6° (alc.-EtOAc); and 2 g. hemiacetal, b0.02 78-90°, m. 113-15° (CHCl3-C6H14), ν 3450, 2900, 1597, 1479, 1460, 1325, 1227, 1160, 1100, 1015, 870 cm.-1 (CHCl3), also prepared in CHCl3 saturated with dry HCl by condensation of X with 2-hydroxymethyl-2,3-dihydrobenzofuran. Benzofuran-2-acetic acid (4.5 g.) in 120 ml. AcOH hydrogenated at 20°/3 atmospheric over 1.5 g. 10% Pd-C and the filtered solution evapd, yielded 90% 2,3-dihydrobenzofuran-2-acetic acid (XI), m. 88-90°, ν 3030, 2899, 1715, 1603, 1484, 1466, 1429, 1300, 1227, 1170, 1100, 1016, 985, 927, 877 cm.-1 (CCl4). CH2N2 (0.36 mole, 600 ml. 2.5% in Et2O)

added at 0° with stirring to 0.113 mole 2,3-dihydrobenzofuran-2-carboxylic acid chloride in 100 ml. Et2O, the mixture kept 15 hrs., the Et2O evaporated, and the diazo ketone taken up in 250 ml. absolute alc., stirred at 50° with 2.4 g. Ag2O in 10 ml. absolute alc., and the mixture refluxed 8 hrs., the filtered solution evaporated, and the oily residue distilled gave 9 g. VII (R = CH2CO2Et) (XII), b0.05 100-20°, and 8 g. yellow oil, b0.03 125-8° (discarded). XII (5.5 g.) in 30 ml. alc. refluxed 1 hr. with 15 ml. 2N NaOH and the cooled hydrolyzate extracted repeatedly with Et2O, the aqueous alkaline solution acidified and exhaustively extracted with Et2O, the dried extract evaporated, and the residue distilled yielded 4 g. XI, b0.06 140-50°, m. 76-9° (C6H14), probably a dimorphic crystalline variant of the above XI. XI (3 g.) in 20 ml. C6H6 refluxed 45 min. with 3 ml. SOCl2 and the residue on evaporation distilled yielded 3 g. VII (R = CH2COCl), b0.1 90-2°, converted by treatment with PhNMePh in C6H6 to yield 92% product, recrystd. from C6H6-C6H14 to give VII (R = CH2CONMePh) (XIII), m. 95-7°. XIII (0.011 mole) in 150 ml. dry Et2O at -6° stirred with gradual addition of 13 ml. 0.53 M LiAlH4 (0.007 mole) and the mixture kept 7 hrs. at -5°, treated with 25 ml. 6N H2SO4, and the aqueous phase extracted twice with Et2O, the dried (Na2SO4) extract evaporated, and the oily residue distilled yielded 85% VII (R = CH2CHO), b0.01 84-6°, ν 3030, 2899, 2817, 2703, 1727, 1597, 1481, 1462, 1377, 1325, 1295, 1227, 1171, 1096, 1016, 983, 922, 870, 794, 750, 710 cm.-1 (neat); p-nitrophenylhydrazone m. 146-50° (decomposition) (alc.). Comparison of the properties of the 2 aldehydes III and X with compds. of closely related structure permitted clarification of the nature and mechanism of formation of the corresponding polymeric aldehydes.
IT 92962-85-1P, 2-Benzofurancarboxanilide, 2,3-dihydro-N-methyl-
RL: PREP (Preparation)
(preparation of)
RN 92962-85-1 CAPLUS
CN 2-Benzofurancarboxanilide, 2,3-dihydro-N-methyl- (7CI) (CA INDEX NAME)



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=> log hold
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	118.83	291.14
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-13.26	-13.26

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STN INTERNATIONAL SESSION SUSPENDED AT 12:43:01 ON 02 NOV 2007